Product Datasheet

CHT1 Antibody (62-2E8) - BSA Free
NB110-74570

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 3

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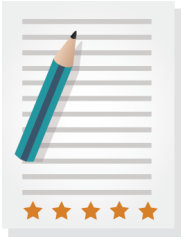
Updated 5/20/2025 v.20.1



NB110-74570

CHT1 Antibody (62-2E8) - BSA Free

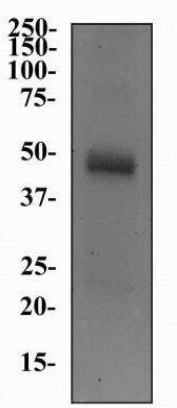
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	62-2E8
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Tissue culture supernatant
Buffer	PBS with 50% Glycerol

Product Description	
Host	Mouse
Gene ID	60482
Gene Symbol	SLC5A7
Species	Human, Mouse, Rat, Primate
Reactivity Notes	Primate reactivity reported in scientific literature (PMID: 12820166)
Immunogen	Recombinant fusion protein from the C-terminal portion of the human CHT1 protein. [UniProt# Q9GZV3]

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:500, Immunohistochemistry 1:500, Immunohistochemistry-Paraffin 1:500, Immunohistochemistry-Frozen 1:500
Application Notes	This CHT1 antibody is useful for Immunohistochemistry frozen sections and paraffin embedded sections and Western blot. In Western blot a band can be seen at ~65 kDa representing CHT and a band can also be seen at ~45 kDa after deglycosylation with PNGase F.

Images

Western Blot: CHT1 Antibody (62-2E8) [NB110-74570] - Western Blot Image of anti-CHT1 (62-2E8). Total protein from mouse brain was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with a 1:500 dilution of anti-CHT1 in 1% milk/TBST. Reactivity was detected with an anti-mouse HRP secondary antibody using chemiluminescence.



Immunohistochemistry: CHT1 Antibody (62-2E8) [NB110-74570] - Staining of neurons in rat basal forebrain

Publications

Kus L, Borys E, Ping Chu Y et al. Distribution of high affinity choline transporter immunoreactivity in the primate central nervous system. J Comp Neurol. 2003-08-25 [PMID: 12820166] (IHC-Fr, Primate, Human)

Misawa H, Fujigaya H, Nishimura T, Moriwaki Y, Okuda T, Kawashima K, Nakata K, Ruggiero AM, Blakely RD, Nakatsu F, Ohno H. Aberrant trafficking of the high-affinity choline transporter in AP-3-deficient mice. Eur J Neurosci;27(12):3109-17. 2008-06-01 [PMID: 18554297] (WB, IF/IHC, Mouse)

Ferguson SM, Savchenko V, Apparsundaram S, Zwick M, Wright J, Heilman CJ, Yi H, Levey AI, Blakely RD. Vesicular localization and activity-dependent trafficking of presynaptic choline transporters. J Neurosci;23(30):9697-709. 2003-10-29 [PMID: 14585997] (IF/IHC, Mouse)

Procedures

Protocol specific for SLC5A7 Antibody (NB110-74570)
CHT1 Antibody (62-2E8):
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading ~30 ug of total protein per lane.
2. Transfer proteins to PVDF according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in PBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM in PBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [PBS + 0.5% Tween] 3 times for 10 minutes each.
7. Dilute the mouse anti-hCHT primary antibody (NB 110-74570) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [PBS + 0.5% Tween] 3 times for 10 minutes each.
9. Apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [PBS + 0.5% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Amersham ECL Plus).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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Products Related to NB110-74570

NBL1-16176	CHT1 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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